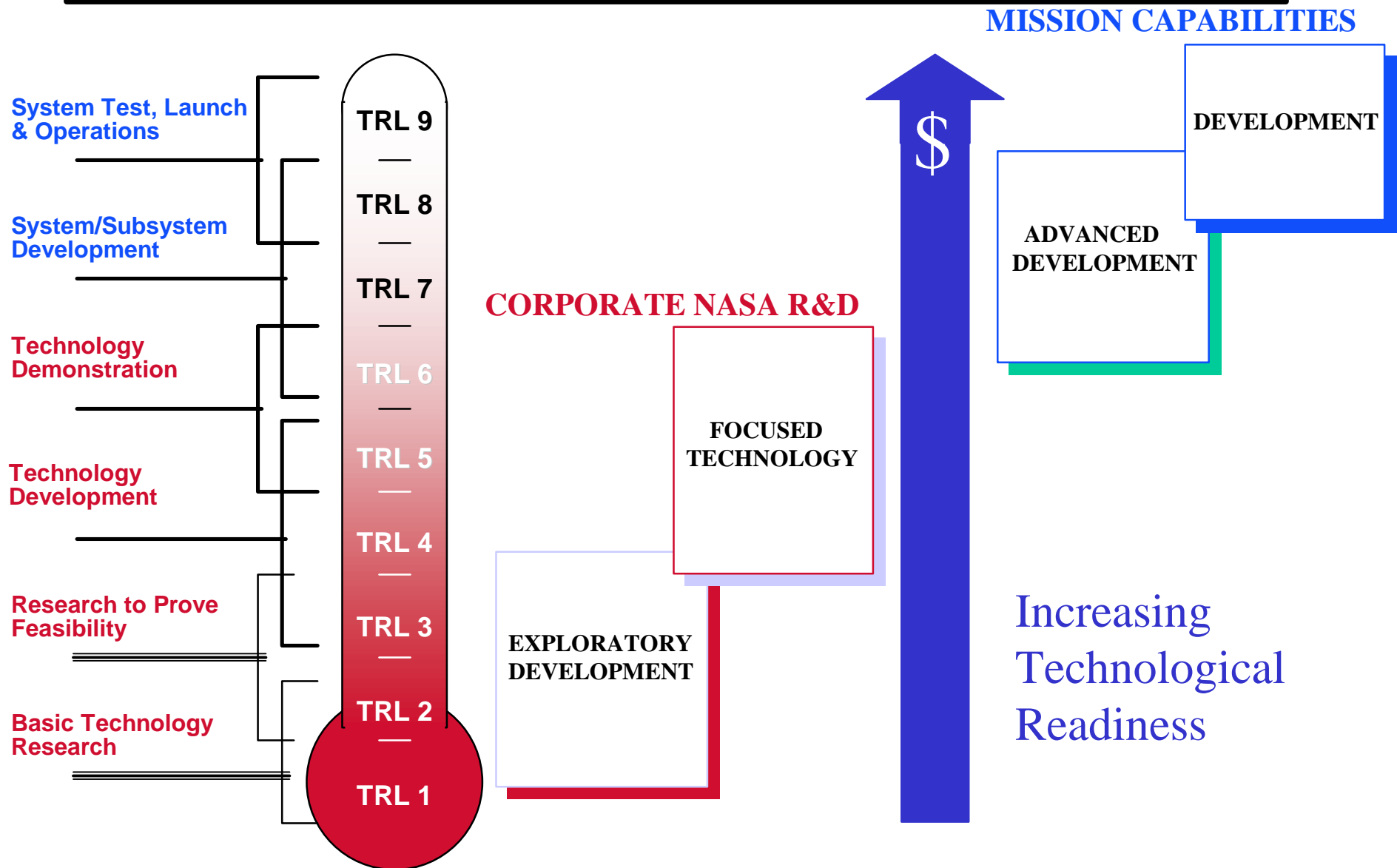


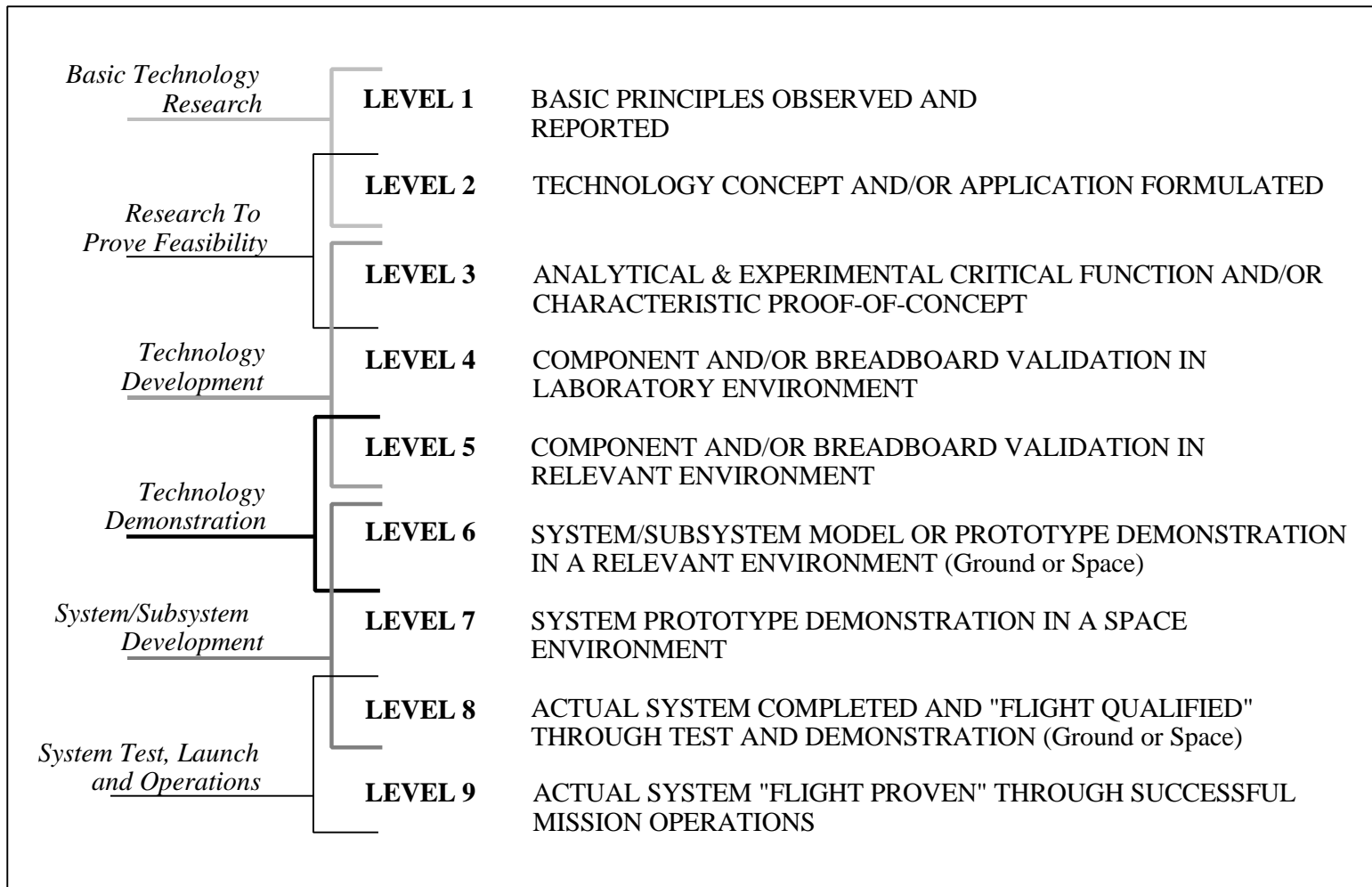
Technology NRA Opportunities

Dr. Ronald S. Polidan
Assistant Director for Technology
Space Sciences Directorate
Goddard Space Flight Center
21 January, 2000

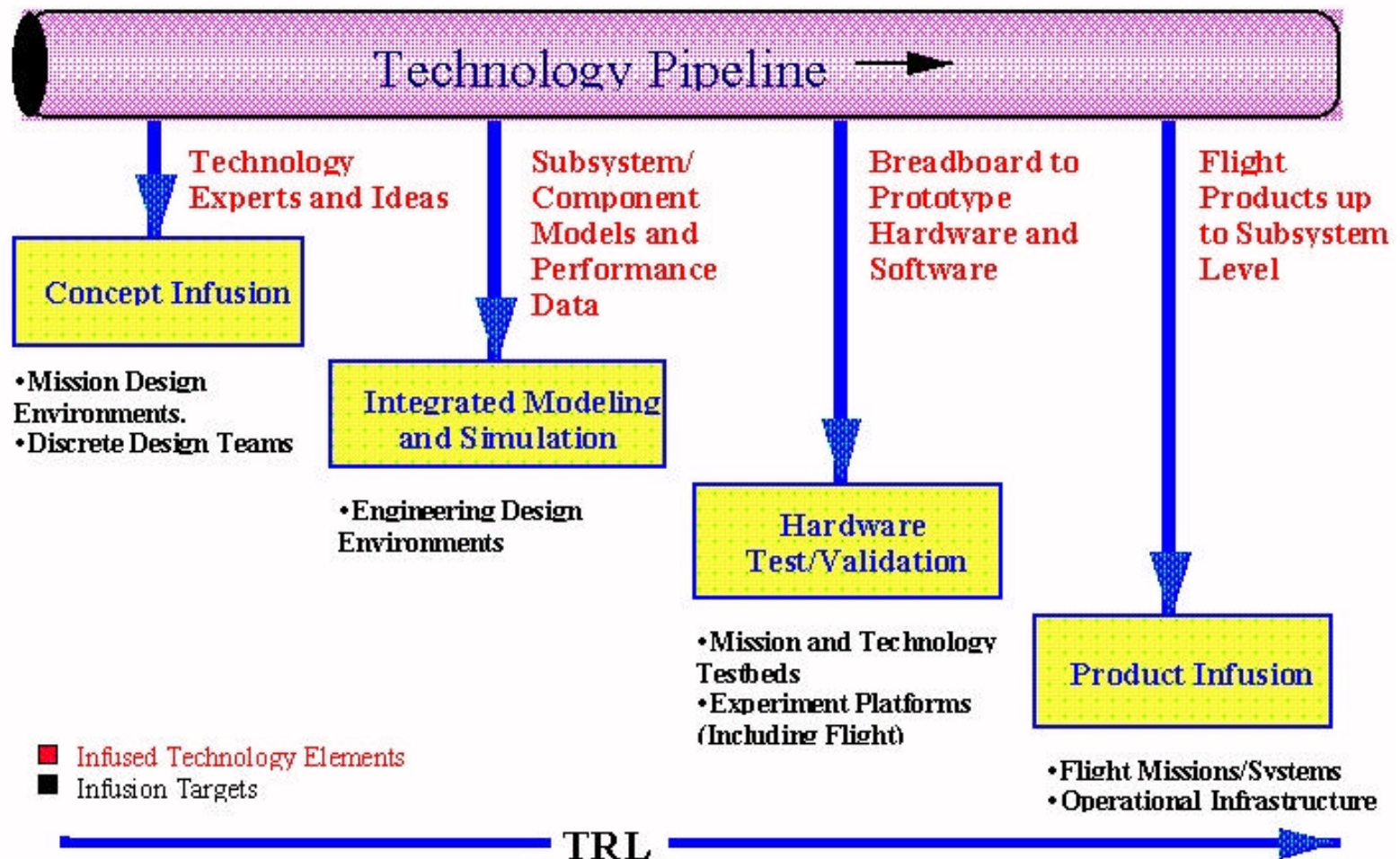
Technology Readiness Levels (TRLs)



Technology Readiness Levels



Technology Infusion - a *Continuous* Process



“Cross-Enterprise” Program

- í NRA 99-OSS-05: "Advanced Cross-Enterprise Technology Development for NASA Missions"**
- í NRA 99-OSS-05 was revised on November 26, 1999. The revisions included:**
 - ® an increase in scope to include the technology areas that were in the draft NRA**
 - ® an extension of the date for Notice of Intent until Dec. 20, 1999,**
 - ® an extension of the date on which proposals are due until Feb. 15, 2000**
 - ® an increase in funding available.**
- í Focus is exclusively upon low TRL (1-3) technology**
- í Multi-year proposals allowed with a cost cap near \$500 K/yr.**
- í The current expectation is that the “Cross-Enterprise” call will be annual**

Explorer Technology Program

- í NRA 98-OSS-10: "Technology Development For NASA Explorer Missions and SOFIA"**
 - Ⓜ Released: 23 October 1998, Closed: 22 January 1999
 - Ⓜ 45 Awards announced in June 99 with most funding going to instrument components (optics, detectors, cryo systems, etc.)
- í Second ET NRA planned for 1st/2nd quarter of 2000 The specific technology areas of interest are being discussed, but, as with the first call, proposed technologies must**
 - Ⓜ be appropriate for Explorer class missions (but not a specific mission)
 - Ⓜ focus on cost reduction or performance improvement
- í Technology can be at any TRL, but with most interest in the TRL 4-6 range**
- í 2-year proposals are the baseline, with a cost cap near \$300 K/yr**
- í The current expectation is that the Explorer Technology call will occur every 2 years**